

Additions and Corrections to the Check List of Australian Elateridae (Coleoptera)

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INTRODUCTION.

Since the publication of "A check list of Australian Elateridae" Neboiss (1956) additional information has been accumulated and includes verifications and additions to the locations of type specimens, systematic changes made in recent publications, and corrections.

This list follows the style of 1956 list, and should be used in conjunction with it. Page references to the latter are given on the left side of page, but full reference to 1956 check list is made only to species where taxonomic changes had taken place. Discrepancies in location of type specimens, particularly those of Blackburn's, occurred mostly where the lists of type specimens, received from various museums, was not quite complete or accurate at that time. Dr. Van Zwaluwenburg's survey in European museums had clarified many of these points (1959), but there is still a small number of species where location of type specimens is unknown or otherwise uncertain.

Institutions and private collections holding type or paratype specimens are listed under following abbreviations:

AM—Australian Museum, Sydney.

BM—British Museum (Natural History), London.

CD—Private collection of Mr. C. Deane, Montville, Qld.

CSIRO — Division of Entomology Museum, C.S.I.R.O.,
Canberra.

DANSW—Department of Agriculture, New South Wales.

DEI—Deutsches Entomologisches Institut, Berlin.

ETS—Private collection of Mr. E. T. Smith, Melbourne.

FEW—Private collection of Mr. F. E. Wilson, Melbourne.

FTF—Private collection of Mr. F. T. Fricke, Sydney.

Genoa—Museo Civico di Storia Naturale, Genoa.

- HSPA—Hawaiian Sugar Planters Association, Honolulu.
IRSNB—Institut Royal des Sciences Naturelles de Belgique, Brussels.
JA—Private collection of Mr. J. Armstrong, Nyngan, N.S.W.
JS—Private collection of Mr. J. Sedlacek, San Francisco.
MACL—Macleay Museum, University of Sydney.
MDN—Museum d'Histoire Naturelle, Paris.
NM—National Museum of Victoria, Melbourne.
NRS—Naturhistoriska Riksmuseet, Stockholm.
Oxford—Hope Department, University Museum, Oxford.
QM—Queensland Museum, Brisbane.
QU—Queensland University, Brisbane.
SAM—South Australian Museum, Adelaide.
TDA—Tasmanian Department of Agriculture, Hobart.
ZM—Zoologisches Museum, Humboldt University, Berlin.

Following the death of Mr. F. E. Wilson, his collection of Australian insects was presented to the National Museum of Victoria, and thus all types referred to in this list as being in that collection are now located in the above institution.

ACKNOWLEDGMENTS.

The author is greatly indebted to the Institutions and private collectors shown above for their co-operation. The most sincere thanks are due to Miss Christine von Hayek, London; Dr. R. H. Van Zwaluwenburg, Santa Rosa; Dr. A. Villiers, Paris, and Dr. K. Delkeskamp, Berlin, for their valuable information and criticism.

p. 3.

Subfamily *ADELOCERINAE*(this name replaces subfamily *AGRYPNINAE*)Genus *Lanelater* Arnett*Agrypnus* Eschscholtz. 1829, in Thon. Ent. Arch. **2**(1): 32.*Lanelater* Arnett, 1952, Wasmann Journ. Biol. **10**: 105.TYPE species: *Agrypnus schotti* LeConte, 1853, Trans. Amer. Phil. Soc. **10**: 492.

The reason for change of generic name from *Agrypnus* to *Lanelater* is given by Arnett (1952) as follows: "This new generic name applies to those species which were formerly placed in the genus *Agrypnus* Eschscholtz (1829, page 32). Mr. M. C. Lane kindly pointed out to me that Westwood (1838, Introduction to the modern classification of insects, vol. 2, appendix page 26) designated *Elater murinus* Linnaeus the type of *Agrypnus*. This means that Hyslop's (1921) designation of *Elater tomentosus* Fabricius as the type of *Agrypnus* is not acceptable, and makes this generic name isogenotypic with *Lacon*, which is not North American. I therefore propose the new generic name, . . ."

According to Arnett it includes 80 species, 7 of which are recorded to be Australian and Oceanic in distribution. How far this change will effect the taxonomy of Australian species has to be seen from a complete revision of the *Agrypnus*, *Adelocera*, *Lacon* complex.

ereptus (Fleutiaux)*Agrypnus ereptus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 3.*Lanelater ereptus* (Cand.) Zwaluwenburg, 1959, Pac. Ins. **1**: 349.

TYPE: BM.

grandis (Hope)*Agrypnus grandis*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 3.*Lanelater grandis*, Zwaluwenburg, 1959, Pac. Ins. **1**: 350.

TYPE: Oxford. (Lectotype ♀ selected by Zwaluwenburg).

p. 4. *resectus* (Candeze)*Agrypnus resectus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 4.

TYPE: IRSNB.

Genus *Adelocera* Latreille*lindensis* (Blackburn)*Lacon lindensis*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 9.*Adelocera lindensis*, Zwaluwenburg, 1959, Pac. Ins. **1**: 352.

TYPE: BM. PARATYPE: (cotype) — SAM.

modesta (Boisduval) --- see *Lacon modestus* (Boisduval).*socia* (Candeze)

TYPE: BM.

Genus *Adelocera* subgenus *Compsolacon* Reitter*Compsolacon*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 14.*Adelocera* subg. *Compsolacon*, Zwaluwenburg, 1959, Pac. Ins. **1**: 352.*crassa* (Candeze)*Lacon crassus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 7.*Adelocera (Compsolacon) crassa*, Zwaluwenburg, 1959, Pac. Ins. **1**: 353.

TYPE: Bonn Museum (Bruck Coll.); lost in 1939-45 war.

duplex (Blackburn)*Lacon duplex*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 7.*Adelocera (Compsolacon) duplex*, Zwaluwenburg, 1959, Pac. Ins. **1**: 353.

TYPE: BM. PARATYPES: (cotypes) — AM; SAM.

farinensis (Blackburn)*Lacon farinensis*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 7.*Adelocera (Compsolacon) farinensis*, Zwaluwenburg, 1959, Pac. Ins. **1**: 353.

TYPE: BM. PARATYPES: (cotypes) — SAM.

labiosa (Candeze)*Lacon labiosus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 9.*Adelocera (Compsolacon) labiosa*, Zwaluwenburg, 1959, Pac. Ins. **1**: 353.

TYPE: BM.

lateralis (Schwarz) (as before)*mansueta* (Blackburn)*Lacon mansuetus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 10.*Adelocera (Compsolacon) mansueta*, Zwaluwenburg, 1959, Pac. Ins. **1**: 353.

TYPE: BM. PARATYPES: (cotypes) — SAM.

marmorata (Candeze)*Lacon marmoratus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 10.*Adelocera (Compsolacon) marmorata*, Zwaluwenburg, 1959, Pac. Ins. **1**: 354.

TYPE: BM. PARATYPES: (cotypes) — SAM.

TYPE of *L. squalescens* Bkbb.: BM. PARATYPES: (cotypes) — SAM.*(Squalescens* Bkbb. probably is not synonymous with *marmorata* Cand. — Hayek in litt. April, 1960.)*octava* (Candeze)*Lacon octavus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 11.*Adelocera (Compsolacon) octava*, Zwaluwenburg, 1959, Pac. Ins. **1**: 354.

TYPE: BM.

palpalis (Candeze)*Lacon palpalis*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 11.*Adelocera (Compsolacon) palpalis*, Zwaluwenburg, 1959, Pac. Ins. **1**: 354.

TYPE: IRSNB.

princeps (Candeze)*Lacon princeps*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 12.*Adelocera (Compsolacon) princeps*, Zwaluwenburg, 1959, Pac. Ins. **1**: 354

TYPE: BM.

semivestitus (Elston)

TYPE: AM. PARATYPES: (cotypes) — SAM.

Genus *Lacon* Castelnau*adustus* Elston

Two of the paratypes in AM are marked "var."

alboguttatus Macleay

TYPE: MACL.

andersoni Blackburn

TYPE: BM.

p. 5. *atricolor* Macleay

TYPE: MACL.

badius Elston

PARATYPES: also NM.

bigener Elston

PARATYPES: also NM.

brightensis Blackburn

TYPE: BM. PARATYPES: (cotypes) — AM ; SAM.

p. 6. *carinulatus* Candeze

TYPE: BM.

TYPE of *adelaidae* Blkb.: BM.*communis* Macleay.

TYPE: MACL.

cordipennis Candeze

TYPE: BM.

p. 7. *crassus* Candeze — see *Adelocera (Compsolacon) crassa* (Candeze).*duboulayi* Candeze

TYPE: BM.

duplex Blackburn — see *Adelocera (Compsolacon) duplex* (Blkb.).*elstoni* Neboiss

PARATYPE: AM.

farinensis Blackburn — see *Adelocera (Compsolacon) farinensis* (Blkb.).

- p. 8. *fasciolatus* Macleay
TYPE: MACL.

fatuus Candeze
TYPE: BM.

ferrugineus Candeze
TYPE: BM.

foreicollis Macleay
TYPE: MACL.

froggatti Macleay
TYPE: MACL.

- p. 9. *incultus* Macleay
TYPE: MACL.

labiosus Candeze — see *Adelocera (Compsolacon) labiosus* (Cand.).

laticollis Candeze
TYPE: BM.

lindensis Blackburn — see *Adelocera lindensis* (Blkb.).

lineatellus Macleay
TYPE: MACL.

- p. 10. *mansuetus* Blackburn — see *Adelocera (Compsolacon) mansueta* (Blkb.).

marginatus Candeze
TYPE: BM.

marmoratus Candeze — see *Adelocera (Compsolacon) marmorata* (Cand.).

modestus (Boisduval) Cosmopolitan

Lacon modestus, Zwaluwenburg, 1942, Bishop Mus. Bull. **172**: 53.

Lepidotus modesta, Arnett, 1952, Wasman Journ. Biol. **10**: 107.

Lacon modestus, Zwaluwenburg, 1957, Ins. Micron. **16**(1): 7.

Lacon modestus, Zwaluwenburg, 1959, Pac. Ins. **1**: 355.

TYPE: BM.

multipunctatus Elston
PARATYPE: AM.

nigrescens Macleay
TYPE: MACL.

- p. 11. *octavus* Candeze — see *Adelocera (Compsolacon) octava* (Cand.).
palpalis Candeze — see *Adelocera (Compsolacon) palpalis* (Cand.).
- parvulus* Macleay
 TYPE: MACL.
- pictipennis* Candeze
 TYPE: BM.
- porriginosus* Candeze
 TYPE: BM.
- p. 12. *princeps* Candeze — see *Adelocera (Compsolacon) princeps* (Cand.).
- punctipennis* Candeze
 TYPE: BM.
- rubescens* Macleay
 TYPE: MACL.
- rubicundulus* Macleay
 TYPE: MACL.
- rufopicens* Macleay
 TYPE: MACL.
- scaber* Candeze N.S.W.
Lacon scaber, Candeze, 1857, Mem. Soc. Sci. Liege **12**: 153.
Lacon scaber, Redtenbacher, 1868, Reise Novara. . . . Zool. **2**: 93.
 TYPE: ?.
- p. 13. *subtilis* Macleay
 TYPE: MACL.
- ursulus* Candeze
 TYPE: BM.
- variabilis* Candeze
 TYPE of *L. maculosus* Macl.: MACL.
- p. 14. *variolus* Candeze
 TYPE: BM.

Genus *Compsolacon* Reitter

see genus *Adelocera* subgenus *Compsolacon* Reitter.

p. 15. Genus *Homoeolacon* Blackburn

gracilis Blackburn

TYPE: BM. PARATYPES: (cotypes) — IRSNB; SAM.

Genus *Myrmodes* Candeze

akidiformis Candeze

Myrmodes akidiformis, Zwaluwenburg, 1959, Pac. Ins. 1: 355.

TYPE: BM.

Subfamily *HEMIRRHIPINAE*

Genus *Alaus* Eschscholtz

albatus Candeze

Alaus albatus, Zwaluwenburg, 1959, Pac. Ins. 1: 355.

TYPE: MDN (designated by Fleutiaux).

p 16. *funebri* Candeze

Alaus funebri, Heller, 1900, Denkschr. Med.-Naturw. Ges. Jena 8(17): 620.

gibboni Newman

Alaus gibboni, Zwaluwenburg, 1959, Pac. Ins. 1: 359.

TYPE: BM (?).

prosectus Candeze

Alaus prosectus, Zwaluwenburg, 1959, Pac. Ins. 1: 362.

sericeus Candeze

Alaus sericeus, Zwaluwenburg, 1959, Pac. Ins. 1: 362.

p. 17.

Genus *Tetrigus* Candeze

australicus Blackburn

Tetrigus australicus, Zwaluwenburg, 1959, Pac. Ins. 1: 363.

TYPE: BM. (specimen in NM probably cotype).

Subfamily *TETRALOBINAE*

Genus *Pseudotetralobus* Schwarz

albertisi (Candeze)

Pseudotetralobus albertisi, Zwaluwenburg, 1959, Pac. Ins. 1: 365.

TYPE: Genoa.

australasiae (Gory)

Pseudotetralobus australasiae, Zwaluwenburg, 1959, Pac. Ins. 1: 365.

TYPE: BM.

TYPE of *P. manglesi* (Hope): Oxford.

p. 18. *capucinus* (Candeze)*Pseudotetralobus capucinus*, Zwaluwenburg, 1959, Pac. Ins. 1: 365.

TYPE: IRSNB.

fortnumi (Hope)*Pseudotetralobus fornumi*, Zwaluwenburg, 1959, Pac. Ins. 1: 365.

TYPE: Oxford.

murrayi (Candeze)*Pseudotetralobus murrayi*, Zwaluwenburg, 1959, Pac. Ins. 1: 365.

TYPE: BM.

punctipennis Elston

PARATYPE: AM.

p. 19. *quadrifoveatus* (Macleay)

TYPE: MACL.

Subfamily *PACHYDERINAE*Genus *Glypheus* Candeze*alpinus* Blackburn

TYPE: BM. PARATYPES: (cotypes) — SAM.

decoratus Candeze

TYPE: MDN (designated by Fleutiaux).

p. 20. *militaris* Carter

PARATYPE: SAM.

nigrinus Carter

TYPE: AM.

sanguineus Elston

PARATYPE: AM.

subfasciatus Carter

TYPE: AM.

villosulus Candeze

TYPE: BM.

Genus *Simodactylus* Candeze*cinnamomeus* (Boisduval)*Simodactylus cinnamomeus*, Zwaluwenburg, 1959, Pac. Ins. 1: 368.

(doubtful whether Australian species)

TYPE: BM.

Subfamily *CONODERINAE*p. 21. Genus *Glyphochilus* Candeze*bicolor* Candeze
TYPE: IRSNB.*championi* Candeze
TYPE: IRSNB.*furvus* (Erichson)
TYPE: ZM.*leptus* Candeze
TYPE: BM.*lucidus* (Erichson)
TYPE: ZM.*montanus* Blackburn
TYPE: BM. PARATYPES: (cotypes) — SAM.*occidentalis* Candeze
TYPE: IRSNB.Genus *Conoderus* Eschscholtzp. 23. after *aurulentus* enter:
australasiae Boisduval — see *Conoderus basalis* (Gyllenhal).*basalis* (Gyllenhal)
Monocrepidius australasiae, Redtenbacher, 1868, Reise der . . . Novara,
Zool. **2**: 93.*basilaris* (Candeze)
Conoderus basilaris, Zwaluwenburg, 1959, Pac. Ins. **1**: 370.
TYPE: Genoa.p. 24. *cerdo* (Erichson)
TYPE: ZM.*compactus* (Candeze)
Conoderus compactus, Zwaluwenburg, 1959, Pac. Ins. **1**: 370; fig. 5.*coxalis* (Candeze)
TYPE: BM.p. 25. *eveillardi* (LeGuillou)
Conoderus eveillardii, Zwaluwenburg, 1959, Pac. Ins. **1**: 371.
TYPE: MDN (designated by Fleutiaux).
TYPE of *M. rubicundus* Macl.: MACL.*fabrilis* (Erichson)
Monocrepidius fabrilis, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.). **20**: 156.
TYPE: ZM.*flavicans* (Candeze) — see *Conoderus (Heteroderes) flavicans* (Cand.).

- p. 26. *fortis* (Blackburn)
TYPE: BM. PARATYPES: (cotypes) — SAM.
- fuscicornis* (Erichson)
TYPE: ZM.
- ingens* (Blackburn)
TYPE: BM. PARATYPES: (cotypes) — SAM.
- jekeli* (Candeze)
Conoderus jekeli, Zwaluwenburg, 1959, Pac. Ins. 1: 371.
TYPE: BM.
- juvenis* (Blackburn)
Conoderus juvenis, Zwaluwenburg, 1959, Pac. Ins. 1: 371; fig. 6.
- p. 27. *macleayanus* Schenkling
TYPE: MACL.
- menevillei* (Candeze)
Monocrepidius menevillei, Redtenbacher, 1868, Reise der . . . Novara. Zool.
2: 93.
- p. 28. *nonus* (Macleay)
TYPE: MACL.
- octavus* (Macleay)
TYPE: MACL.
- p. 29. *planiusculus* (Candeze)
Conoderus planiusculus, Zwaluwenburg, 1959, Pac. Ins. 1: 372.
- planus* (Candeze)
Conoderus planus, Zwaluwenburg, 1959, Pac. Ins. 1: 372.
- primus* (Macleay)
TYPE: MACL.
- quartus* (Macleay)
TYPE: MACL.
- p. 30. *quintus* (Macleay)
TYPE: MACL.
- regularis* (Candeze)
Conoderus regularis, Zwaluwenburg, 1959, Pac. Ins. 1: 371; 372.
TYPE: Genoa.
- rufifrons* (Candeze)
Conoderus rufifrons, Zwaluwenburg, 1959, Pac. Ins. 1: 372; fig. 7.

rutilicornis (Erichson)

TYPE: ZM.

secundus (Macleay)

TYPE: MACL.

p. 31. *seniculus* (Candeze)

Conoderus seniculus, Zwaluwenburg, 1959, Pac. Ins. 1: 372.

septimus (Macleay)

TYPE: MACL.

sextus (Macleay)

TYPE: MACL.

simulans (Candeze)

Conoderus simulans, Zwaluwenburg, 1959, Pac. Ins. 1: 373.

TYPE: Genoa.

socius (Candeze)

Conoderus socius, Zwaluwenburg, 1959, Pac. Ins. 1: 373.

TYPE: IRSNB.

squalescens (Candeze)

Conoderus squalescens, Zwaluwenburg, 1959, Pac. Ins. 1: 373.

TYPE: IRSNB.

squalidus (Candeze)

Conoderus squalidus, Zwaluwenburg, 1959, Pac. Ins. 1: 373.

(generic position doubtful)

strigatus (Candeze)

Conoderus strigatus, Zwaluwenburg, 1959, Pac. Ins. 1: 373.

TYPE: IRSNB.

p. 32. *tabidus* (Erichson)

TYPE: ZM.

TYPE of *Ludius crocopus* Hope: ?.

tertius (Macleay)

TYPE: MACL.

torresi (Candeze)

Conoderus torresi, Zwaluwenburg, 1959, Pac. Ins. 1: 373 ; fig. 8.

TYPE: Genoa.

tumidus (Candeze)

Conoderus tumidus, Zwaluwenburg, 1959, Pac. Ins. 1: 373.

TYPE: IRSNB.

p. 33. *variegatus* (Blackburn)

TYPE: BM. PARATYPES: (cotypes) — SAM; AM.

ventralis (Candeze)*Conoderus ventralis*, Zwaluwenburg, 1959, Pac. Ins. **1**: 371; 374.

TYPE: IRSNB.

Genus *Conoderus* subgenus *Heteroderes* Latreille*Heteroderes*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 34.*Conoderus* subgen. *Heteroderes*, Zwaluwenburg, 1959, Pac. Ins. **1**: 375.*albidus* (Macleay) (as before)*blackburni* Zwaluwenburg*Heteroderes carinatus* Blackburn, 1889, Proc. Linn. Soc. N.S.W. (2) **3**: 1423.
(not *C. carinatus* Cand. 1859).*Heteroderes carinatus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 34.*Conoderus (Heteroderes) blackburni*, Zwaluwenburg, 1959, Pac. ins. **1**: 375.

TYPE: BM. PARATYPES: (cotypes) — SAM.

cairnensis Blackburn — see *Conoderus (Heteroderes) flavicans* (Cand.).*carinatus* Blackburn — see *Conoderus (Heteroderes) blackburni* Zwal.*flavicans* (Candeze)

Qld.

Monocrepidius flavicans, Candeze, 1878, Ann Mus. Stor. nat. Genova, **12**: 116.*Heteroderes cairnensis*, Blackburn, 1893, Trans. Roy Soc. S. Austr. **17**: 296.*Conoderus flavicans*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 25.*Heteroderes cairnensis*, Neboiss, *ibid.*, p. 34.*Conoderus (Heteroderes) flavicans*, Zwaluwenburg, 1959, Pac. Ins. **1**: 375.

TYPE: Genoa.

TYPE of *H. cairnensis* Blkb.: BM. PARATYPES: (cotypes) — AM; SAM.Genus *Aeolus* Eschscholtz*australis* Candeze*Aeolus australis*, Zwaluwenburg, 1959, Pac. Ins. **1**: 376.

TYPE: NRS.

queenslandicus Blackburn — see *Aeoloderma queenslandica* (Blkb.)Genus *Aeoloderma* Fleutiaux*Aeoloderma* Fleutiaux, 1928, Encyc. Ent. Paris B.I. Coll. **3**: 135.TYPE species: *Elater crucifer* Rossi, 1790, Faune Etr. **1**: 183.*queenslandica* (Blackburn)

N-th Qld.

Aeolus queenslandicus, Blackburn, 1892, Proc. Linn. Soc. N.S.W. (2) **7**: 295.*Aeolus queenslandicus*, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 33.*Aeoloderma queenslandica*, Zwaluwenburg, 1959, Pac. Ins. **1**: 376.

TYPE: BM.

p. 34.

Genus *Heteroderes* Latreillesee genus *Conoderus* subgenus *Heteroderes* Latreille.Subfamily *ELATERINAE* becomes *AMPEDINAE*

p. 35.

Genus *Ampedus* Megerle*Ampedus*, Megerle, 1833, in Dejean; replaces *Elater*.TYPE species: *Elater sanguineus* Linn. 1758, Syst. Nat. ed. 10: 405.*cinnamomens* (Macleay)

TYPE: MACL.

granulatipennis (Lea)

PARATYPES: TDA; NM; SAM.

inconspicuus (Macleay)

TYPE: MACL.

longiusculus (Macleay)

TYPE: MACL.

p. 36. *perplexus* (Candeze)

TYPE: BM.

wentworthensis (Blackburn)*Elater wentworthensis*, Blackburn, 1897, Trans. Roy. Soc. S. Austr. 21: 32.

PARATYPES: (cotypes) -- SAM.

xanthomus, Macleay, W. S. — see *Anilicus xanthomus* (Macl.).Genus *Megapenthes* Kiesenwetter*automolus* Candeze*Neotrichophorus automolus*, Neboiss, 1956, Mem. Nat. Mus. Vict. 22(2): 57.*Megapenthes automolus*, Zwaluwenburg, 1959, Pac. Ins. 1: 379.

TYPE: BM.

dolens Candeze*Neotrichophorus dolens*, Neboiss, 1956, Mem. Nat. Mus. Vict. 22(2): 57.*Megapenthes dolens*, Zwaluwenburg, 1959, Pac. Ins. 1: 380.

TYPE: BM.

futilis Candeze*Megapenthes futilis*, Blackburn, 1897, Trans. Roy. Soc. S. Austr. 21: 32.*lituratus* Candeze*Megapenthes lituratus*, Zwaluwenburg, 1959, Pac. Ins. 1: 381.

TYPE: MDN.

- p. 37. Genus *Melanoxanthus* Eschscholtz
- angularis* Candeze
Melanoxanthus angularis, Zwaluwenburg, 1959, Pac. Ins. **1**: 385.
 TYPE: Genoa. (Terra typica — New Guinea).
- australis* Candeze
Melanoxanthus australis, Zwaluwenburg, 1959, Pac. Ins. **1**: 385.
 TYPE: MDN (designation by Fleutiaux).
- biarctus* Carter
 TYPE: MACL. PARATYPES: NM; SAM.
- p. 38. *fasciolatus* (Macleay)
 TYPE: MACL.
- froggatti* (Macleay)
 TYPE: MACL.
- jucundus* Carter
 PARATYPES: MACL.
- lativittis* Carter
 PARATYPES: AM.
- melanocephalus* (Fabricius) N.S.W.
Elater melanocephalus, Fabricius, 1781, Spec. Ins. **1**: 272.
Melanoxanthus melanocephalus, Redtenbacher, 1868, Reise der . . . Novara.
 Zool. **2**: 95 (from Sydney).
Melanoxanthus melanocephalus, Zwaluwenburg, 1942, Bishop Mus. Bull.
172: 53.
Melanoxanthus melanocephalus, Zwaluwenburg, 1959, Pac. Ins. **1**: 387.
 TYPE: BM.
- ruficollis* Candeze
 TYPE: Genoa.
- p. 39. Subfamily *PSYSORRHININAE* should be placed before subfamily
AMPEDINAE.
- Subfamily *HYPOLITHINAE*
 Genus *Hypholithus* Eschscholtz
 to replace genus *Hypnoïdus* Dill.
- Hypolithus*, Eschscholtz, 1829, in Thon, "Entomol. Arch." **2**(1): 34.
Hypolithus, Lane, 1948, Proc. Ent. Soc. Wash. **50**: 223.
 TYPE species: *Hypolithus littoralis* Eschscholtz *ibid.*
- dimidiatus* (Macleay)
 TYPE: MACL.
 TYPE of *C. semifasciatus* Macl.: MACL.

Subfamily *CARDIOPHORINAE*p. 41. Genus *Paracardiophorus* Schwarz.*amabilis* Carter

PARATYPES: SAM.

p. 42. *dulcis* Carter

PARATYPES: MACL.

p. 43. *eucalypti* (Blackburn)

TYPE: BM.

humilis (Candeze)*Paracardiophorus humilis*, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.) **20**: 157.*litoralis* Carter

PARATYPES: AM.

p. 44. *macleayi* (Schwarz)

TYPE: MACL.

nigrosuffusus Carter

PARATYPES: MACL.

p. 45. *varians* Carter

PARATYPES: AM ; DANSW ; MACL.

p. 46. *victoriensis* (Blackburn)

TYPE: BM.

Subfamily *ATHOINAE*p. 47. Genus *Limonius* EschscholtzTYPE species: *Elater aeoniger* DeGeer (syn. *Elater bructeri* Fab.)*angulatus* Carter

PARATYPES: MACL ; DANSW.

pubescens Carter

PARATYPES: MACL ; SAM.

Subfamily *CTENICERINAE**Ctenicerinae* Fleutiaux, 1936, Ann. Soc. Ent. Fr. **105**: 279-300.
not nom. nov. Neboiss. 1956.Genus *Ctenicera* Latreille*ambigua* (Candeze)*Ludius ambiguus*, Schwarz, 1907, Gen. Ins. **46**: 228.*australiana* (Candeze)*Ludius australicus*, Schwarz, 1907, Gen. Ins. **46**: 228.*compsorhabda* (Candeze)*Ludius compsorhabdus*, Schwarz, 1907, Gen. Ins. **46**: 228.*Ctenicera compsorhabda*, Zwaluwenburg, 1959, Pac. Ins. **1**: 401.

TYPE: BM.

p. 48. *litura* (Candeze)

Ludius liturus, Schwarz, 1907, Gen. Ins. **46**: 228.

nigrina (Macleay)

Ludius nigrinus, Schwarz, 1907, Gen. Ins. **46**: 228.

rufipennis (Macleay)

Ludius rufipennis, Schwarz, 1907, Gen. Ins. **46**: 228.

suavis (Candeze)

Corymbites suavis, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.) **20**: 157.
TYPE: IRSNB.

subpectinata (Schwarz)

Ludius subpectinatus, Schwarz, 1907, Gen. Ins. **46**: 228.

tasmanica (Candeze)

TYPE: BM.

victoriae (Schwarz)

Ludius victoriae, Schwarz, 1907, Gen. Ins. **46**: 228.

xanthoptera (Candeze)

Ludius xanthopterus, Schwarz, 1907, Gen. Ins. **46**: 228.

Ctenicera xanthoptera, Zwaluwenburg, 1959, Pac. Ins. **1**: 401.
TYPE: BM.

Genus *Pristilophus* Latreille

impurus Germar

TYPE: ZM.

(generic position doubtful)

p. 49.

Genus *Elatichrosis* Hyslop

Chrosis, Candeze, 1863, Mem. Soc. Sci. Liege. **17**: 186 (Not Guenee 1845)

Elatichrosis, Hyslop, 1921, Proc. U.S. Nat. Mus. **58**: 644.

Elatichrosis, Neboiss, 1960, Austr. J. Zool. **8**: 293-305; figs.

TYPE species: *Chrosis exarata* Candeze, 1863, Mem. Soc. Sci. Liege.
17: 186.

adusta Neboiss

Australia

Elatichrosis adusta, Neboiss, 1960, Austr. J. Zool. **8**: 298; figs.

TYPE: BM.

angusticollis (Blackburn)

Vic.

Chrosis angusticollis, Blackburn, 1900, Trans. Roy. Soc. S. Austr. **24**: 114.

Elatichrosis trisulcata, Carter, 1939, Proc. Linn. Soc. N.S.W. **64**: 305.

Elatichrosis trisulcata, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.

Elatichrosis angusticollis, Neboiss, 1960, Austr. J. Zool. **8**: 298; figs.

TYPE: BM.

barbata (Candeze) — New Zealand species, to be omitted from Australian list,

- bullarta* Neboiss Vic.
Elatichrosis bullarta, Neboiss, 1960, Austr. J. Zool. **8**: 303; figs.
 TYPES: NM. PARATYPE: QM.
- clivalis* Neboiss N.S.W.
Elatichrosis clivalis, Neboiss, 1960, Austr. J. Zool. **8**: 303; figs.
 TYPES: NM. PARATYPES: BM; JA; AM; NM; FTF; MACL; SAM.
- dirana* Neboiss N.S.W.
Elatichrosis dirana, Neboiss, 1960, Austr. J. Zool. **8**: 302; figs.
 TYPE: NM. PARATYPES: AM; JA; MACL; NM.
- exarata* (Candeze) Tas.
Chrosis exarata, Candeze, 1863, Mem. Soc. Sci. Liege. **17**: 186.
Elatichrosis exarata, Hyslop, 1921, Proc. U.S. Nat. Mus. **58**: 644.
Elatichrosis exarata, Senenkling, 1927, Col. Cat. **11**(88): 406.
Elatichrosis exarata, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.
Elatichrosis exarata, Neboiss, 1960, Austr. J. Zool. **8**: 301; figs.
 TYPES: BM.
- gananga* Neboiss N-th Qld.
Elatichrosis gananga, Neboiss, 1960, Austr. J. Zool. **8**: 296; figs.
 TYPES: Holotype ♀ NM; Allotype ♂ SAM. PARATYPES: AM; SAM.
- illita* (Candeze) — see *Lingana illita* (Cand.).
- kituga* Neboiss Vic.
Elatichrosis kituga, Neboiss, 1960, Austr. J. Zool. **8**: 304; figs.
 TYPES: NM. PARATYPES: AM; BM; ETS; FEW; JA; QM.
- lansbergei* (Candeze) S-th Qld., N-th N.S.W.
Chrosis lansbergei, Candeze, 1882, Mem. Soc. Sci. Liege (2)**9**: 97.
Elatichrosis lansbergei, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.
Elatichrosis lansbergei, Neboiss, 1960, Austr. J. Zool. **8**: 295; figs.
 TYPE: MDN.
- sequestris* Neboiss S-th Qld.
Elatichrosis sequestris, Neboiss, 1960, Austr. J. Zool. **8**: 297; figs.
 TYPES: QM.
- trisulcata* (Erichson) Vic., Tas.
Pristilophus trisulcatus, Erichson, 1842, Arch. Naturgesch. **8**(1): 139.
Pristilophus trisulcatus, Germar, 1842, Zeitschr. Ent. **4**: 92.
Chrosis trisulcata, Candeze, 1863, Mem. Soc. Sci. Liege **17**: 186; pl. 2, fig. 10.
Elatichrosis trisulcata, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.
Elatichrosis trisulcata, Neboiss, 1960, Austr. J. Zool. **8**: 300; figs.
 TYPE: ZM.

vrydaghi Neboiss S-th Qld., N-th N.S.W.
Elatichrosis vrydaghi, Neboiss, 1960, Austr. J. Zool. **8**: 299; figs.
 TYPE: SAM. PARATYPES: AM; NM.

wilsoni Neboiss S-th N.S.W., Vic.
Elatichrosis wilsoni, Neboiss, 1960, Austr. J. Zool. **8**: 304; figs.
 TYPES: FEW. PARATYPES: NM; SAM.

Genus *Lingana* Neboiss

Lingana, Neboiss, 1960, Austr. J. Zool. **8**: 290; figs.
 TYPE species: *Chrosis illita*, Candeze, 1863, Mem. Soc. Sci. Liege **17**: 187.

dombarta Neboiss S.W.A.
Lingana dombarta, Neboiss, 1960, Austr. J. Zool. **8**: 292; figs.
 TYPE: SAM.

illita (Candeze) S-th Qld., N.S.W., Vic.
Chrosis illita, Candeze, 1863, Mem. Soc. Sci. Liege **17**: 187; pl. 2, fig. 7.
Metablax Plasoni, Schwarz, 1903, Dtsch. Ent. Z. **1903**: 393.
Chrosis illita, Schwarz, 1906, Dtsch. Ent. Z. **1906**: 368.
Elatichrosis illita, Schenkling, 1927, Col. Cat. **11**(88): 406.
Elatichrosis illita, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.
Lingana illita, Neboiss, 1960, Austr. J. Zool. **8**: 291; figs.
 TYPE: BM. PARATYPE: BM.
 TYPE of *M. plasoni* Schw.: ?.

Genus *Aphileus* Candeze

Aphileus, Candeze, 1857, Mem. Soc. Sci. Liege **12**: 184.
Aphileus, Neboiss, 1959, Austr. J. Zool. **7**: 137.
 TYPE species: *Aphileus lucanoides* Candeze, *ibid*.

depressus Candeze — see *Aphileus lucanoides* Cand.

distinctus Neboiss N-th Qld., N.W.A.
Aphileus distinctus, Neboiss, 1959, Austr. J. Zool. **7**: 138; figs. 2-4; pl. 1,
 fig. 1.
 TYPES: Holotype ♂ NM; Allotype ♀ FEW. PARATYPES: NM; SAM.

ferox Blackburn N-th Qld.
Aphileus ferox, Blackburn, 1895, Trans. Roy. Soc. S. Austr. **19**: 50.
Aphileus ferox, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.
Aphileus ferox, Neboiss, 1959, Austr. J. Zool. **7**: 143; figs. 18-21; pl. 1, fig. 4.
Aphileus ferox, Zwaluwenburg, 1959, Pac. Ins. **1**: 402.
 TYPE: BM.

goombarus Neboiss

S.W.A.

Aphileus goombarus, Neboiss, 1959, Austr. J. Zool. **7**: 144; figs. 22, 23; pl. 1, fig. 5.

TYPE: NM.

lucanoides Candeze

Qld., N.S.W., W.A.

Aphileus lucanoides, Candeze, 1857, Mem. Soc. Sci. Liege **12**: 184; pl. 3, fig. 5.

Aphileus depressus, Candeze, *ibid.*: 185.

Dorcastoma (Elater) jansoni, Newman, 1857, Trans. Ent. Soc. Lond. (N.S.) **4**: 52.

Aphileus lucanoides, Gemminger & Harold, 1869, Cat. Col. **5**: 1496.

Aphileus lucanoides, Schwarz, 1907, Gen. Ins. **46**: 231.

Aphileus lucanoides, Schenkling, 1927, Col. Cat. **11**(88): 406.

Aphileus lucanoides var. *depressus*, Elston, 1930, Ark. Zool. **22**: 18.

Aphileus depressus, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 49.

Aphileus lucanoides, Neboiss, *ibid.*

Aphileus lucanoides, Neboiss, 1959, Austr. J. Zool. **7**: 139; figs. 5-14; pl. 1, fig. 2.

Aphileus lucanoides, Zwaluwenburg, 1959, Pac. Ins. **1**: 402.

TYPE: BM.

TYPE of *A. depressus* Cand.: BM.

TYPE of *D. jansoni* Newm.: ?.

mulkanus Neboiss

Qld.

Aphileus mulkanus, Neboiss, 1959, Austr. J. Zool. **7**: 141; figs. 15-17; pl. 1, fig. 3.

TYPE: QM. PARATYPES: AM; NM; SAM; QU.

p. 50.

Genus *Chrostus* Candeze.*quadrifoveolatus* Candeze

Chrostus quadrifoveolatus (?), Blackburn, 1896, Rep. Horn Exped. 2. Zool. (Col.) : 272.

Chrostus quadrifoveolatus, Zwaluwenburg, 1959, Pac. Ins. **1**: 402.

TYPE: IRSNB.

Genus *Hapatesus* Candeze

Hapatesus, Candeze, 1863, Mem. Soc. Sci. Liege **17**: 188.

Genus *Hapatesus* subgenus *Hapatesus* Candeze

Hapatesus s.s., Neboiss, 1957, Austr. J. Zool. **5**: 499.

TYPE species: *Hapatesus hirtus*, Candeze, *ibid.*

argentatus Neboiss

Qld., N-th N.S.W.

Hapatesus pretiosus, Elston non Candeze, 1930, Ark. Zool. **22**: 18.

Hapatesus (Hapatesus) argentatus, Neboiss, 1957, Austr. J. Zool. **5**: 500;
figs. 10, 11.

TYPES: AM. PARATYPES: AM; JS; MACL; NM; NRS; SAM.

dubius, Schwarz — see *Toorongus jugulatus* (Cand.).

electus Neboiss

S-th Qld., N.S.W.

Hapatesus (Hapatesus) electus, Neboiss, *ibid.*: 508; figs. 23, 24.

TYPE: AM. PARATYPES: AM; BM; FEW; JA; MACL; NM; SAM;
TDA.

globosus Neboiss.

N-th Qld.

Hapatesus (Hapatesus) globosus, Neboiss, *ibid.*: 505; fig. 18.

TYPE: NM.

hirtus Candeze

S-th Qld., N.S.W., Vic., S.A.

Hapatesus hirtus, Candeze, 1863, Mem. Soc. Sci. Liege **17**: 188; pl. 2, fig. 8.

Hapatesus hirtus, Froggatt, 1923, Forest Ins. Austr.: 35.

Hapatesus (Hapatesus) hirtus, Neboiss, 1957, Austr. J. Zool. **5**: 506;
figs. 2-7; 19; pl. 1, fig. 2.

TYPE: IRSNB.

hirtus var. *minor*, Elston — see *Hapatesus (Minutesus) bubanus*, Neboiss.

hirtus var. *minor*, Lea — see *Hapatesus (Hapatesus) minor* (Lea).

jugulatus Candeze — see *Toorongus jugulatus* (Cand.).

unctus Neboiss

S-th Qld., N.S.W.

Hapatesus (Hapatesus) unctus, Neboiss, *ibid.*: 509; fig. 25

TYPE: NM. PARATYPES: JA; JS; NM.

kershawi Neboiss

N.S.W., Vic.

Hapatesus (Hapatesus) kershawi, Neboiss, *ibid.*: 500; figs. 8, 9.

TYPES: NM. PARATYPES: AM; ETS; FEW; NM; SAM; OM

leai Schenkling — see *Hapatesus (Hapatesus) minor* Lea.

minor (Lea)

Tas., King Isl.

Hapatesus hirtus var. *miuor*, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.) **20**: 157.

Hapatesus leai, Schenkling, 1927, Col. Cat. **11**(88): 408.

Hapatesus leai, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 50.

Hapatesus (Hapatesus) minor, Neboiss, 1957, Austr. J. Zool. **5**: 507; fig. 20.

TYPE: NM. PARATYPES: NM; TDA.

minutus Schwarz — see *Toorongus minutus* (Schw.).

opulentus Neboiss N.S.W., Vic.
Hapatesus (Hapatesus) opulentus, Neboiss, *ibid.*: 505; figs. 21, 22.
 TYPES: NM. PARATYPES: AM; BM; NM; CSIRO; QM.

pretiosus Candeze Qld.
Hapatesus pretiosus, Candeze, 1887, *Notes Leyden Mus.* **9**: 287.
Hapatesus (Hapatesus) pretiosus, Neboiss, 1957, *Austr. J. Zool.* **5**: 502;
 figs. 12, 13.
 TYPE: IRSNB.

tepidus Neboiss S-th Qld., N-th N.S.W.
Hapatesus (Hapatesus) tepidus, Neboiss, *ibid.*: 503, figs. 14, 15.
 TYPES: Holotype ♀ AM; allotype ♂ QM. PARATYPES: NM; QM.

zonatus Neboiss N-th N.S.W.
Hapatesus (Hapatesus) zonatus, Neboiss, *ibid.*: 504; figs. 16, 17; pl. I, fig. I.
 TYPES: NM. PARATYPES: JA; NM.

Subgenus *Minutesus* Neboiss

Hapatesus subgen. *Minutesus*, Neboiss, 1957, *Austr. J. Zool.* **5**: 509.
 TYPE species: *Hapatesus (Minutesus) bubanus*, Neboiss, *ibid.*

bubanus Neboiss N-th Qld.
Hapatesus hirtus var. *minor*, Elston non Lea, 1930, *Ark. Zool.* **22**: 19.
Hapatesus hirtus var. *minor*, Neboiss, 1956, *Mem. Nat. Mus. Vict.* **22**(2): 50.
Hapatesus (Minutesus) bubanus, Neboiss, 1957, *Austr. J. Zool.* **5**: 513;
 figs. 31-33; pl. 1, fig. 4.
 TYPES: Holotype ♂ NRS; allotype ♀ AM. PARATYPES: AM; NM;
 NRS; SAM.

gundus Neboiss N-th Qld.
Hapatesus (Minutesus) gundus, Neboiss, *ibid.*: 512; fig. 30.
 TYPE: AM.

pallidus Neboiss N-th Qld.
Hapatesus (Minutesus) pallidus, Neboiss, *ibid.*: 512; figs. 34, 35.
 TYPES: NM. PARATYPES: HSPA; JS; NM.

pervulgatus Neboiss Qld., N.S.W.
Hapatesus (Minutesus) pervulgatus, Neboiss, *ibid.*: 511; figs. 28, 29; pl. 1,
 fig. 3.
 TYPES: NM. PARATYPES: AM; DANSW; QM; QU.

sagittarius Neboiss N-th Qld.
Hapatesus (Minutesus) sagittarius, Neboiss, *ibid.*: 511; fig. 27.
 TYPE: AM.

Genus *Toorongus* Neboiss

Toorongus, Neboiss, 1957, Austr. J. Zool. **5**: 515.

TYPE species: *Hapatesus jugulatus*, Candeze, 1900, Ann. Soc. Ent. Belg. **44**: 97.

bivius Neboiss

S-th Qld., N.S.W., Vic.

Toorongus bivius, Neboiss, 1957, Austr. J. Zool. **5**: 517; fig. 43, pl. 1, fig. 5.

TYPES: NM. PARATYPES: CSIRO; NM; QM.

excelsus Neboiss

N.S.W., Vic.

Toorongus excelsus, Neboiss, *ibid.*: 519; fig. 44.

TYPES: NM. PARATYPES: CD; FEW.

jugulatus (Candeze)

N.S.W., Vic., Tas.

Hapatesus jugulatus, Candeze, 1900, Ann. Soc. Ent. Belg. **44**: 97.

Hapatesus dubius, Schwarz, 1902, Dtsch. Ent. Z. **1902**: 126.

Hapatesus jugulatus, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 50.

Hapatesus dubius, Neboiss, *ibid.*

Toorongus jugulatus, Neboiss, 1957, Austr. J. Zool. **5**: 516; figs. 37-42

TYPES: IRSNB.

TYPE of *H. dubius* Schw.: DEI.

minutus (Schwarz)

N.S.W., Vic.

Hapatesus minutus, Schwarz, 1903, Dtsch. Ent. Z. **1903**: 395.

Hapatesus minutus, Neboiss, 1956, Mem. Nat. Mus. Vict. **22**(2): 50.

Toorongus minutus, Neboiss, 1957, Austr. J. Zool. **5**: 518; fig. 45.

TYPES: DEI.

Subfamily *CREPIDOMENINAE*

p. 51.

Genus *Crepidomenus* Erichson

aberrans Lea

PARATYPES: TDA.

adclaidae Candeze

Crepidomenus adclaidae, Zwaluwenburg, 1959, Pac. Ins. **1**: 402.

TYPE: BM.

australis (Boisduval)

Crepidomenus australis, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.). **20**: 158.

Crepidomenus australis, Zwaluwenburg, 1959, Pac. Ins. **1**: 403.

TYPE: BM.

decoratus Erichson

Crepidomenus decoratus, Lea, Proc. Roy. Soc. Vict. (N.S.). **20**: 158.

TYPE: ZM. PARATYPE: ZM.

p. 52. *fulgidus* Erichson

Crepidomenus fulgidus, Redtenbacher, 1868, Reise der . . . Novara. Zool.
2: 95.

Crepidomenus fulgidus, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.). 20: 158.
TYPES: ZM.

hirtus Candeze

Crepidomenus hirtus, Zwaluwenburg, 1959, Pac. Ins. 1: 403.
TYPE: BM.

luteipes Boheman

Crepidomenus luteipes, Zwaluwenburg, 1959, Pac. Ins. 1: 403.
TYPE: NRS. PARATYPES: (cotypes)—NRS.

metalescens Candeze

N.S.W.

Crepidomenus metalescens, Zwaluwenburg, 1959, Pac. Ins. 1: 403.
TYPE: BM.

p. 53. *montanus* Carter

PARATYPES: DANSW.

queenslandicus Blair

Crepidomenus queenslandicus, Glen, 1950, Smiths Misc. Coll. 111(11): 181 ;
figs. 10f ; 37d-f.

p. 54. *taeniatus* Erichson

TYPE: ZM. PARATYPES: NM ; ZM.

victoriae Candeze

Crepidomenus victoriae, Zwaluwenburg, 1959, Pac. Ins. 1: 403.
TYPE: BM.

vulneratus Candeze

Crepidomenus vulneratus, Zwaluwenburg, 1959, Pac. Ins. 1: 403.
TYPE: IRSNB.

Genus *Paracrepidomeuus* Schwarz*filiformis* Candeze

Paracrepidomenus filiformis, Zwaluwenburg, 1959, Pac. Ins. 1: 403.
TYPE: BM.

p. 56.

Genus *Microdesmes* Candeze*mastersi* (Macleay)

PARATYPES: (cotypes)—SAM.

Subfamily *ELATERINAE*(to replace subfamily *LUDIINAE*)Genus *Elater* Linnaeus(to replace genus *Ludius* Berthold.)

Elater, Hincks, 1956, Journ. Soc. Brit. Ent. 5: 198.

- p. 57. Genus *Neotrichophorus* Jacobson.
both Australian species transferred back to genus *Megapenthes*. Genus
Neotrichophorus should be omitted from Australian list.
- p. 58. Genus *Anilicus* Candeze
- quadriguttatus* (Erichson)
Melanoxanthus quadriguttatus, Lea, 1908, Proc. Roy. Soc. Vict. (N.S.) 20:
157.
TYPE: ZM.
- semiflavus* (Germar)
TYPE: ZM.
- xanthomus* (Macleay, W. S.)
TYPE: MACL.
- Genus *Paranilicus* Candeze
- brevicornis* (Macleay)
PARATYPES: (cotypes)—SAM.
- p. 59. Genus *Agonischius* Candeze
- brevis* Candeze
Agonischius brevis, Zwaluwenburg, 1959, Pac. Inst. 1: 408.
TYPE: MDN (designated by Fleutiaux).
- mjobergi* Elston
Agonischius mjobergi, Zwaluwenburg, 1959, Pac. Ins. 1: 409.
- p. 60. Genus *Dicteniophorus* Candeze
- badiipennis* Candeze
Dicteniophorus badiipennis, Zwaluwenburg, 1959, Pac. Ins. 1: 409.
TYPE: BM.
- p. 61. *fusiformis* Candeze
Dicteniophorus fusiformis, Redtenbacher, 1868, Reise der . . . Novara. Zool.
2: 96.
TYPE: BM.
- melanoderus* Candeze
Dicteniophorus melanoderus, Redtenbacher, 1868, ibid.: 96.
Dicteniophorus melanoderus, Zwaluwenburg, 1959, Pac. Ins. 1: 410.
TYPE: BM.
- ramifer* (Eschscholtz)
Dicteniophorus ramifer, Redtenbacher, 1868, Reise der . . . Novara Zool.
2: 96.
TYPE: ZM.

p. 62.

Genus *Anilicopsis* Schwarz

Anilicopsis dubius (Schwarz) is a synonym of *Heligmus glyphoderus*, Candeze, a South American species which has been incorrectly referred to Australia. It should be omitted from Australian list.

ref. Quelle, 1934, Mitt. D. Ent. Ges. **5**: 33-34.

Genus *Acroniopus* Erichson

fuliginosus Candeze

TYPE: ZM.

humilis (Erichson)

TYPE: ZM.

infimus (Erichson)

TYPE: ZM.

pallidus Blackburn

TYPE: SAM.

Subfamily *DENTICOLLINAE*

p. 63.

Genus *Macromalocera* Hope

ceramboides Hope

Macromalocera ceramboides, Zwaluwenburg, 1959, Pac. Ins. **1**: 410.

TYPE: Oxford (?).

coenosa Hope

Macromalocera coenosa, Zwaluwenburg, 1959, *ibid.*

TYPE: Oxford (?).

sinuaticollis Blackburn

Macromalocera sinuaticollis, Zwaluwenburg, 1959, *ibid.*

TYPE: BM.

Genus *Hemiopsida* Macleay

This genus belong to the family *Eucnemidae*, and should be omitted from list of Elateridae.

ref. Lea, 1895, Proc. Linn. Soc. N.S.W. **10**: 230.

Subfamily *PHYSODACTYLINAE*

p. 64.

Genus *Patriciella* Zwaluwenburg

This name to replace *Patricia* Zwaluwenburg non Fox.

ref. Zwaluwenburg, 1953, Proc. Hawaii. Ent. Soc. **15**: 20.

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10. „ 1957, Austr. J. Zool. **5**: 496-520.
11. „ 1959, Austr. J. Zool. **7**: 136-145.
12. „ 1960, Austr. J. Zool. **8**: 289-306.
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